



## CARSWELL AFB TEXAS

## ADMINISTRATIVE RECORD COVER SHEET

AR File Number 765.1

1	MR. WALTERS: Everybody ready to roll?
2	Public members? Are you guys ready to roll? Would
3	you like to wait a few minutes? Bill, what do you
4	think? Are you ready to get out of this hot weather,
5	get back in the pool?
6	MR. GROSS: Hey, I had to replace my
7	pool and it's not working, so
8	MR. WALTERS: Well, I didn't see
9	anybody else coming into the parking lot, so I think
10	we will go ahead and start. You have me up here
11	again tonight. Allison Thompson, she took a new job,
12	so she won't be our co-chair anymore. So we were
1:3	going to look for another one, but we have heard some
14	people obviously are busy with life and activities.
15	So if nobody wants to do it, the Air
16	Force members will probably rotate and continue to
17	still have these meetings, and then in the future, if
18	we have somebody show up that wants to be the
19	co-chair, we will be happy to have them take over for
20	us. So I don't know. Are we going to ask for a
21	co-chair tonight or
22	MALE SPEAKER: Yes.
23	MR. WALTERS: So do you want to do
24	that now or wait until later to see if anybody is
25	excited about what we are doing?

1	MR. GROSS: How much does it pay?
2	MR. WALTERS: Free refreshments.
3	MR. GROSS: That's complimentary.
4	Says complimentary water?
5	MR. WALTERS: I could probably throw
6	in a hat or two.
7	MR. GROSS: Well, I got one of them.
8	MALE SPEAKER: Shirts?
9	MALE SPEAKER: Think of all of the
10	self satisfaction.
11	MR. WALTERS: There you go.
12	MR. GROSS: I am satisfied.
13	MR. WALTERS: If anybody from the
14	public would like to volunteer to be a co-chair,
15	raise your hand. Seeing none, we will keep it as the
16	Air Force lead for the next meeting, and then we will
17	see if you can talk your neighbors into coming and
18	doing it with us.
19	I think the next order is, I think we
20	are going to do introductions of everybody. Again, I
21	am George Walters from Wright-Patterson Air Force
22	Base, and I do Air Force Project Manager for
23	Restoration. We will start with Mike.
24	Introductions.
2.5	MR DODYK. I am Mike Dodyk I'm

1	the I work for Arch, and I am the resident
2	engineer here at Carswell.
3	MS. ROCKFORD: My name is Miquette
4	Rockford, and I work for a company called
5	HydroGeoLogic as a contractor for the Air Force.
6	MS. GETUARA: My name is Stacy Getuara
7	[phonics], and I am interning at Lockheed in the
8	Environmental Department.
9	MS. HAMILTON: Audrey Hamilton. I'm a
10	contractor with the Air Force.
11	MR. HAWKOM: Mike Hawkom [phonics]
12	With AFCE in San Antonio.
13	MR. WALTERS: Start over here with
14	this guy.
15	MR. McGRAW: My name with Greg McGraw
16	with Shaw Environmental, the contractor with the Air
17	Force.
18	MS. CASTLEBECK: I'm Karen Castlebeck.
19	I from the Public Affairs office at Wright-Patterson
20	Air Force Base.
21	MS. PATE: I am J'Nell Pate. I am

MR. SULLIVAN: My name is Bob

Sullivan. I am with the Environmental Protection

Agency, Superfund Project Manager for Air Force Plant

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from the community.

1	4.
2	MR. MATTOX: I am John Mattox from th
3	community and a representative of the property owner
4	(inaudible.)
5	MR. BAILEY: Ed Bailey with Blouson
6	[phonics] Hamilton support (inaudible.)
7	DR. WIREMAN: And my name is Jody
8	Wireman. I am at Brook City Base but not with AFCE.
9	I'm with the with the Air Force Institution for
10	Operational Health.
11	MR. McSHULLEY: Steve McShulley of Air
12	Services, consultant to the Air Force.
13	MR. KARAS: I'm Doug Karas with the
14	Air Force Real Property Agency.
15	MR. PRINGLE: Chuck Pringle with the
L6	Air Force Center for Environmental Excellence and
L7	also the Air Force Center for Real Property Agency.
L8	MR. SKALEN: Skalen, City of Fort
19	Worth Water Department.
20	MR. SEWELL: I am Tim Sewell. I am
21	with the Texas Commission on Environmental Quality,
22	Region 4 office out of Fort Worth.
23	MR. BENNETT: Noel Bennett with the
24	U.S. EPA Regional Office in Dallas, Federal Facility
25	Section

1	MR. HOOPER: I am Mike Hooper with the
2	Texas International Guard Unit.
3	MR. HENDERSON: Greg Henderson with
4	the City of River Oaks.
5	MR. OWEN: D.W. Owen, City of River
6	Oaks.
7	MR. O'SHEFSKY: Bill O'Shefsky,
8	retired Air Force. That's it.
9	(Laughter.)
10	MR. SCHULTZ: Dan Schultz with Earth
11	(inaudible). We are an Air Force contractor.
12	MR. PARSON: Dave Parson,
13	(inaudible) SAT.
14	MALE SPEAKER: (Inaudible.)
15	MR. WEISS: Rick Weiss, Shaw
16	Environmental. We're an Air Force contractor for
17	(inaudible.)
18	MR. WALTERS: And folks in the back,
19	can you hear them?
20	THE REPORTER: Missed a tiny bit of
21	the last one.
22	MR. WALTERS: Rick Weiss.
23	THE REPORTER: Thank you.
24	MR. WEISS: Shaw Environmental.
25	MR. WALTERS: Amazing she can't hear

1	you, Rick. And anyway, since we do have to take the
2	minutes, we would like to make sure you speak up and
3	talk loudly so that she can hear everything and some
4	of us people who can't hear good, I'd like to I
5	will probably ask you twice if you ask me a question.
6	But that's okay.
7	I think next, we are going to if
8	you looked at the minutes at the last meeting
9	hopefully, I am going to anybody have any
10	questions or errors they would like to correct?
11	Otherwise, we are going to move for approving the
12	minutes. Do I have a
13	MALE SPEAKER: So moved.
14	MR. WALTERS: So moved?
15	MALE SPEAKER: Actually second,
16	whatever.
17	MR. WALTERS: Okay. Let's get rolling
18	here. I don't see Leland here. If he shows up
19	later, we will let him do the Westworth Redevelopment
20	Agency that's not him. We will let this guy show
21	up. One second. But actually Chuck's up.
22	Okay. We did the nominations. I
23	don't believe there were any action items from the
24	previous meeting. Very good.
25	Chuck, you're up next, so why don't

1	you Chuck? And Miquette, does he just push a
2	button to get started?
3	MR. PRINGLE: I am Chuck Pringle. I
4	work for the Air Force Center for Environmental
5	Excellence. I also represent the Air Force Real
6	Property Agency who owns the land at Carswell Air
7	Force Base. So my job is to support the Air Force
8	Real Property Agency, clean up the environment as
9	necessary on the BRAC land.
10	And on the other side of the house, we
11	have Mike Dodyk, who is cleaning up the the bases
12	for the sites on the Naval side. When that all gets
13	done hopefully next year, we will be able to transfer
L <b>4</b>	the land to the Navy and hopefully the golf course,
15	probably not next year but the year after that, we
16	will be able to transfer that to the to the WRA,
17	Westworth Redevelopment Authority.
18	I am presently trying to get the
19	Weapons Storage Area transferred. But before I get
20	into that, kind of briefed up, Jody Wireman is going
21	to speak to you now, who is basically going to be
22	talking on the Weapons Maintenance Investigation,
23	which was done in the Weapons Storage Area and all of
24	that. And we will go from there.
25	Do you have a nointer?

1	DR. WIREMAN: Yeah, I should have one
2	Yeah, my name is Jody Wireman. I am at Brook City
3	Base in San Antonio and working for the Air Force
4	Institute for Operational Health, which is an Air
5	Force Surgeon General outfit.
6	The group that I work with basically
7	is the you know, they are the brains for the
8	health physics, the nuclear side as far as health
9	risks from from radiologicals. And they would
10	respond to you know, how you they talk about
11	dirty bombs, things like that. Well, the military
12	folks in our group would respond to those conditions
13	So we have got expertise in the
14	military, and we have also got civilians that
15	health physicists who work with radiological. So
16	that's why the Air Force Real Property Agency came to
17	our group, to provide provide assistance on this
18.	project.
19	So I am going to be going over, you
20	know, a little bit of the history; how we found out
21	that there were six BRAC installations that had
22	weapons, maintenance activities that produced some
23	low-level residues of radioactive materials, and I are
24	going to go over about how those six sites were
25	the six installations were identified, including the

1	off-base	Weapons	Storage		Area	ı at	t Carswell	
2		I	am	going	, to	talk	about	wha

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at we know 3 now; the path forward. There was a Weapons Storage Area survey that was done at Carswell first, and then 5 eventually at the other four installations. One of 6 the installations was Loring Air Force Base, and they 7 had additional information separate from Carswell and the other four because they fell 9 under -- it's a -- they fell under the Atomic Energy Commission early on. So they identified some 10 11 trenches and remediated them right away. In the --12 as part of the IRP process.

So we have got one site -- one installation that's already cleaned up. We found out about five more. And the first place that we went, logistically, it made sense. We brought a team up from Brooks City Base, and they did the survey and some -- some of the areas where I will be going over to identify if there was any immediate concern whether you would have to have a team come out and do some sort of remedial action.

So that was done on the 27th of May and, based on the findings there, we -- we say that there is no immediate risk. But I will get into where we are going to go from here.

1	It's definitely not over. We are
2	going to look at whether there are trenches out
3	there, and I will tell you about the approach that we
4	are going to use.
5	I guess it's in the IRP frame, we are
6	still in the preliminary assessment site
7	investigation where and I will give you the
8	information that we have. But we are still in the
9	early stages of just identifying whether or not there
LO	is a trench out there.
L1	This is a pretty busy slide. I am
L2	glad that you have the handouts. But basically, what
L3	happened, there was a secrecy component to not
14	knowing about what was going on in the Weapons
15	Storage Areas during the late '50s, early '60s time
16	frame.
17	But what had happened and I guess
18	some of the some of our folks say it's like the
19	stars or like planets being aligned or something like
20	that. There was a health physicist who had worked
21	IRP activities, including that at Loring Air Force
22	Base.
23	So he was aware of certain operations
24	that were accomplished that produced these low levels
25	of waste materials. Just they were basically

Ť	residues from these open systems, and open systems
2	means that and I will show you a picture of a
3	nuclear weapon later, but essentially, it was two
4	components.
5	And originally we thought at
6	Carswell, they thought they just had a one-component
7	sealed system, but the new information was that the
8	system was, in fact, open. And because it was an
9	open system, they cleaned it out with rags, and they
10	had and the rags wiped it off. It was like a
11	dust, a rust. And what they found at Loring was a
12	lot of white materials and, you know, personal
13	protective equipment that had low levels of
14	radioactivity associated with it.
15	But this, this health physicist that
16	worked at the Air Force Safety Center through the
17	VA process, are asked whether or not these people
18	were experiencing or could be exposed to levels of
19	radioactive materials that could cause an adverse
20	health effect.
21	So he started talking to these weapon
22	maintenance workers and discovered that it wasn't
23	just Loring that this happened at; it was happening
24	at other installations.
25	So he contacted the Air Force Real

T	Property Agency, the BRAC folks and said, you know,
2	"This doesn't make sense. We only did it at Loring.
3	Are you sure you didn't do any kind of clean-up or
4	find trenches at other sites?"
5	So this began a a survey or I guess
6	a records search in late '01 that ran through
7	January, '03. They had to contact a number of Army
8	and DOD offices to get the records of where those
9	open systems were used and talk to weapons
10	maintenance workers from the '50s and '60s, assure
11	them that what they were going to say wasn't going to
12	be held against them, you know, in a court of law
13	because they originally pledged that they weren't
14	going to release any kind of weapons maintenance-
15	related activity.
16	So they started talking to workers.
17	They were looking at records to see where these open
18	systems were used, and that's how Carswell was
19	identified.
20	The Air Force Safety Center, January
21	through the present, is still collecting information
22	In October, there is going to be a meeting with these
23	retirees, these former weapons maintenance area
24	workers to try to refine where these trenches may
25	have been.

1	And then over the last couple of
2	months, we have been going out to all of the
3	installations. And the unique part or the unique
4	thing about the way we are approaching this is that
5	we are doing you know, we are doing it out of one
6	office, the Air Force Institute for Operational
7	Health, and we are using one contractor, Cabrera.
8	And Steve McShulley is here from
9	Cabrera, but we are trying to use a consistent
10	approach. And and probably more important than
11	that is we can learn from it as we are as we are
12	going through it.
13	If there is one area that seems to be
14	the location where the trenches are put, we can apply
15	that at other installations, that information.
16	This is just some examples that you
17	can pull off of the web, I guess, of what the weapon
18	systems looked like. And this is the part that would
19	open up. They would take the nuclear device out of
20	there, and that's the part that the workers of the
21	day considered to be, you know, harmful.
22	And that's the you know, that was
23	the nuclear, you know, explosive that was the
24	nuclear device, and this outside component is the
25	is the part that they would where most of the

waste would have been generated from.

Because inside, inside of there, they

had to make sure the components fit together, so they

had to make sure that that oxidized rust, depleted

uranium, was cleaned out so that they would slide

together. And that's where -- that's the waste that

7 we are talking about.

So it's -- it's a uranium, and all of
the uranium, you know, isotopes are what we are
looking for.

As far as Carswell, again, it had the open systems, the two-part systems in the '50s and '60s. They had to clean it out. So it wasn't likely. It was -- it was -- it did happen that this oxidized material was removed.

Again, it's -- it's just the residual contamination. Somebody explained it like wiping the windshield of your car; kind of a dust type material that they would collect on rags, and -- and they used TCE and some other things during this, during this process; small quantities of that.

Our -- our thought is that these wastes would be put into trenches inside the Weapons Storage Area fence; that they wouldn't move it outside the Weapons Storage Area fence, and Loring

1	actually had trenches.
2	The unique thing about Carswell is
3	they there they actually had a Solid Waste
4	Management Unit that they removed pipes, three pipes
5	that had radioactive material, and we are still doing
6	the records search to see if that's where the waste
7	was put.
8	Some of the documents say radium dials
9	were put into those pipes. Early on, they said there
10	were possibly other radioactive materials, and our
11	thought is that, yeah, they could have had some
12	radium dials in there, but more than likely, the
13	waste from the operations, the maintenance
14	operations, would have been put in those pipes as
15	well.
16	And there is a possibility that it
17	could have been shipped off, but we don't have any
18	records that shows that the materials were shipped
19	off.
20	So our thought is, you know, get the
21	best available information and see if we can locate
22	trenches out there unless we can get information that
23	suggests that it was shipped off or that it was

within that one cleaned-up area.

So we are still, still looking at

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1	records. Most of you know where the offsite Weapons
2	Storage Area is located in relationship to the Naval
3	Air Station.
4	As far as the Weapons Storage Area,
5	itself, on your paper I think it has this building
6	here and this building here up at the top of the
7	page. And I guess these are the areas that some of
8	the workers that they interviewed thought that that
9	material may have been placed in those areas.
10	And the way that we are planning out
11	the site so far and we are going to obviously wor
12	with the regulators to develop the plan further.
13	But, you know, the potential areas of investigation
14	are up around here, up around these igloos, and then
15	where they took that shell, the big part the big
16	part of the weapon, they the big part of the
17	weapon, they would take it down into this facility.
18	And that's where they would take the TCE and clean i
19	out down there.
20	So this area has been an area that we
21	have been including in the preliminary plans for
22	investigations.
23	And I guess I can't recall exactly
24	where the right here, this this dot right here

is where the three pipes were located. So it's kind

T	of logical, too, that they would have taken that
2	waste and put it have put it over to the Solid
3	Waste Management Unit.
4	But right now, you know, we are
5	looking at this area, around this area and then
6	trying to get information about the Solid Waste
7	Management Unit.
8	So what what's been going on so far
9	is that we conducted a preliminary site investigation
10	to see if anything needed to be done right away.
11	Cabrera is our contractor. And
12	essentially today we went out with the contractor to
13	look at the site so they could start working on or
14	developing the work plan.
15	And then obviously, the regulatory and
16	the community input into that process is going to
17	drive it. And obviously, we are briefing that
18	information to the RAB today as well. I have the
19	20th there, but it's just been today that we have
20	been here.
21	And then I think I explained it, but
22	most of the information we have is based on
23	experience at Loring Air Force Base, because that's
24	the only place where we actually found well, we
25	actually looked for and found the trenches, and

1	and interviews with folks who did the Weapons Storage
2	Area or Weapons Maintenance.
3	Just a little bit about that survey.
4	Again, it was a just a preliminary investigation.
5	The question is the main question was: Is that
6	stuff, if it was buried, was it somehow making it to
7	the did it somehow make it to the surface?
8	If somebody is walking in that area,
9	is there a health hazard or an ecological risk to
10	those folks?
11.	And we surveyed around those buildings
12	that the workers identified. We went over the Solid
13	Waste Management Unit 60 again, and they looked at a
14	few other areas as well in that initial survey and
15	didn't really see. Basically things were within the
16	natural background levels during that evaluation.
17	There was one, one igloo that they
18	found some higher levels in the concrete. I guess it
19	was 318531 that they found some higher levels in the
20	concrete.
21	So that will be, you know, one of the
22	main focuses of the next survey, too, is to reassess
23	that report. That was the report that was done in
24	came in out in '96. The survey was done in '94.

Just of the building.

1	And the way we are moving forward,
2	it's going to be the the CERCLA process. The
3	IR the normal IRP process where we bring in the
4	regulators and the community to help us go through
5	this process.
6	And the first question that we try to
7	answer with that preliminary evaluation was, "Is
8	there an immediate risk? Does something have to be
9	done right away?"
10	The next step is the site inspection,
11	and then it's a non-intrusive scoping survey. So
12	we are going to, again, do a more comprehensive
13	scanning of the surface, and we will also have
14	geophysical work done at that time to try to identify
15	if there are any kind of trenches out there with
16	this, you know, acute physical work.
17	And then, you know, based on the
18	results of that inspection, we could move into an
19	intrusive survey remedial investigation or, depending
20	on what the levels what they find if they go
21	back to that one building and, you know, in fact,
22	there is some radioactive material in that concrete
23	of the bunker, they can they can remove that
24	concrete.
25	Or if they found the trench, based on

1	the radiological measurements, they could come out
2	and do a removal action at that time as well.
3	So the investigation, we just started
4	developing the sampling plan, and we really can't
5	move too quickly on that until we get some regulatory
6	input to make sure that we are going in the right
7	direction.
8	It's going to be a non-intrusive
9	scoping survey, and there will be some surface soils
10	and if it's available, surface water and possibly
11	some core samples from some of the bunkers, as well.
12	So right now, I guess we are we
13	have kind of have a sampling plan we have developed
14	for other sites and we are going to have to run it
15	past the regulators to see if that's the approach
16	that they think is right for Carswell.
17	Then we'll distribute that for
18	regulatory review. Again, it's considered a
19	non-intrusive. So if the trench is, say, three, four
20	feet, six feet deep as is was the case at Loring,
21	it may need some more it may need an initial study
22	after the initial one that we do.
23	Again, once we get that once we do
24	the this initial investigation, we are going to
25	have to get with the regulators to talk about the

1	findings to see where we have to go at that point.
2	If at any time, you know, we find that
3	the levels are elevated in a certain area of
4	radioactive material, we can move into a clean-up
5	action. We have gotten a commitment from
6	headquarters at RIPA that says we can go right to
7	they will find money for us and we will move to clear
8	up, you know, with concurrence from the regulatory
9	community and the community.
10	And obviously, in order to do the
11	thorough job, we would have to go to the final status
12	survey of that area. And, in fact, we may have to do
13	some additional work within that Solid Waste
14	Management Unit, as well.
15	Conclusions: You know, we are really
16	early on. And as far as an IRP process goes, we are
17	before the PASI. So I mean, this is a good time to
18	be involved, because you can actually help direct
19	this work.
20	We did an initial evaluation, like I
21	said; no immediate human health or environmental
22	risk.
23	We are developing plans, but we are
24	going to have to I guess we are going to have to
25	wait until the next BCT before we can really iron out

1	what that plan is going to look like. I guess it's
2	going to be in November sometime. But hopefully we
3	can start talking, you know, before then so we can
4	start moving towards developing that draft plan.
5	But the money is on line. Unlike
6	maybe some other projects, the money is already on
77	line to do the site site investigation. So that's
8	one good thing. We do have commitment to go through
9	the process with this project.
10	And basically, that's all I have for
11	today.
12	MR. SEWELL: Can you please state
13	again how the potential radioactive residual material
14	was generated?
15	DR. WIREMAN: The radioactive material
16	was generated because you have this open system in
17	which basically it was and Ed could explain it
18	better afterwards if you want to maybe talk about it.
19	But it's a two-part system, and one
20	part was taken out and moved to one of the to one
21	of the igloos.
22	Another part was taken to that
23	maintenance area where they actually used rags, some
24	usually containing a solvent like TCE, and wiped out
25	the insides. It's it was an oxid they had to

1	remove the oxidized depleted uranium.
2	MR. SEWELL: So you're basically
3	wiping out the inside of a casing?
4	DR. WIREMAN: Yes.
5	MR. SEWELL: Okay.
6	DR. WIREMAN: That's right.
7	MR. O'SHEFSKY: Bill O'Shefsky. You
8	say if if a burial site does exist out there, you
9	say it does not pose a potential hazard to what -
LO	what do you base that on? It doesn't how can you
L1	say it doesn't it's not hazardous?
L2	DR. WIREMAN: I say it's not an
L3	immediate risk right now that's out there because,
L <b>4</b>	based on the information we have, because it's
L <b>5</b>	buried, the risk is most of it's external.
L6	So the soil that's on top of it is
L7	actually protecting the person that would be walking
L8	over it. Is that but that doesn't mean it
L9	couldn't be a potential problem in the future, and
20	that's why we need to do this more thorough survey.
21	MALE SPEAKER: Maybe, too and
22	correct me if I am wrong, you know, on some of my
23	facts, but the the oxidation, the stuff that's on
24	the rags, is from depleted uranium which has low
25	levels of actual emission.

1	And it's my understanding that in
2	terms of your health risk from depleted uranium, it's
3	actually, if you internalize it, more than if if
4	you were exposed to emissions of it.
5	MR. O'SHEFSKY: But do you have just
6	rags out there? Are you are you are you taking
7	this from your findings that you got up at Loring?
8	DR. WIREMAN: Right, yeah, from the
9	findings at Loring.
LO	MR. O'SHEFSKY: Well, you don't know
L1	what if you do have a burial site out there, you
L2	don't know what you have in there.
L3	DR. WIREMAN: Well, it would logically
L <b>4</b>	be just the waste materials from these maintenance
L5	operations. There is there is that's the
L6	reason we are doing this evaluation is because we
L7	have information that suggests that there would be
L8	these waste materials generated from cleaning it up.
L9	There's no there's no information
20	that suggests it would be anything else.
21	And the initial walk-over survey,
22	again, if there was if there was an external
23	hazard that was immediate, we would have we would
24	have found it at that point.
25	When Cabrera does their evaluation,

1	it's going to look you know, it's going to do a
2	more thorough job at that. And we are not going to
3	stop. We are not stopping at the surface
4	necessarily, you know, because we are going to do
5	this ground-penetrating radar, metal detectors, see
6	if there are any trenches.
7	The next phase would be to evaluate -
8	if they look like a trench, we are going to go down
9	and dig down and see if it's there. If we if we
10	identify what looks to be a trench, we will go down
11	and see if there is radiological material and then
12	clean it up.
13	MALE SPEAKER: Did the workers that
14	cleaned it out, did they have protective gear on when
15	they were doing that? Or did they just take the rag
16	and wipe it out?
17	DR. WIREMAN: I am not clear on
18	everything, but they did have some respirators and
19	some smocks. I don't know exactly what activities
20	they used the respirators and smocks with, and
21	gloves.
22	But that was part of the waste
23	materials that were generated and that they found at
24	Loring. And they are working with the maintenance

workers to see, find out exactly what PB they used

1	and in what operation.
2	Did they actually use it for this
3	operation? Did they consider that hazardous? I
4	think some of the maintenance people didn't think
5	that was a very hazardous operation because they
6	weren't dealing with the you know, the nuclear
7	part, you know, so to speak.
. 8	So some of them may not have, you
9	know, taken the right approach, but that's something
10	that we are working on; I guess the Air Force Safety
11	Center has been doing, and that's how they identified
12	Carswell.
13	They are the ones that are trying to
14	find out whether these VA claims should be they
15	should be processed or not.
16	MALE SPEAKER: Well, that was my
17	question. Did any of the workers get ill from doing
18	this?
19	DR. WIREMAN: I don't have yeah, I
20	don't have that because I guess the the VA
21	folks would be the ones who have that information.
22	MR. PRINGLE: Let me ask you: We had
23	a briefing on this about a year ago at the safety
24	center.

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They basically identified Carswell and

1	said they had talked to some of the maintenance
2	workers and they had a pretty good idea where this
3	might this point.
4	But they also looked at the other
5	places and they talked to the maintenance workers up
6	there, and none of them have any ill effects at this
7	point.
8	A lot of this work was done in the
9	'50s and '60s and thought if something would have
10	occurred, they would have known by now. So they have
11	seen no problem because of this low level.
12	And as far as the digging of the
13	ditches, my understanding was Atomic Energy
14	Commission at Carswell at the time, they have
15	guidelines, and these people followed the guidelines
16	but it was classified work because what they were
17	doing with it and all of that.
18	So if they they dug the trenches,
19	they dug them at a certain depth. And the idea was
20	it was low level and as long as there was soil on top
21	of it, there would be no emissions.
22	So the preliminary assessment out
23	here, survey on 27 May, was to go out there and see
24	if there was any leaks possibly from these ditches
25	coming out of the ground, and we didn't get that

1 indication.

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So the point is now we're just trying 2 to make sure that, if there was a ditch or more than 3 one ditch out there, we want to find them. But the 5 indications are that if they are there, we are not 6 detecting them at at this point. Again, we are still doing some records search looking further, especially 7 Carswell, because it seems like a lot of the Weapons Storage Area folks out there can't be found; we don't 9 know where they are at. 10 We have got some maps. We did an 11

We have got some maps. We did an environmental assessment on the Weapons Storage Area back in '99, 2000. We actually got clearance at 2001 from the regulatory folks, both EPA and the State on what we did.

When we looked out there, we did find some radiation, but it was mainly in the water but that was from natural purposes; radon in most cases the cases and all that. So the indications are that, you know, this and that are not necessarily connected.

We went through igloos, we went through the ground and soil and everything out there, and we didn't find anything that was suspicious.

I find out today, which I didn't know about, that the Corps of Engineers also did a survey

1	back in 1992 which was more related to what was going
2	on here. And they were actually looking for
3	radiation and that type of stuff, and their
4	indications were that they didn't find anything
5	either.

So we have had three surveys; the one that they just did, the one that we did, and one back in 1992. Again, we are going -- continuing records research and the safety center, along with AFIOH and operations, are checking with other people and they're asking more people to come forward.

As a matter of fact, there is a flier out there on the desk that is particularly for here that if you know something about this, you know someone that might be knowledgeable or knows somebody else, there is a number on there. We would like you to go find that, call in, and we can continue on and all of that.

In the meantime, we are continuing our records research and talking to different people. We are talking to Reserves, too, because when this land was originally put out here at the Naval Air Station, a lot of the documentation kind of indicated that the Reserves were the recipient of a lot of the records.

We don't know if that's true or not.

1	And Mike, did you ever get a call
2	back?
3	MR. DODYK: Well, just got that
4	inventory but no records.
5	MR. PRINGLE: Okay. We're going to do
6	some more searching. And it may go through the Corps
7	of Engineers. Probably go to St. Louis and all of
8	that, because we want to make sure that we don't miss
9	anything here.
10	But the AFIOH is going to actually
11	take the equipment out there and go over all the land
12	and investigate to make sure that if our paperwork
13	isn't correct, at least we are going to check on
14	things and all of that.
15	And again, I was told by the safety
16	center that no one has ever been linked to this being
17	a health problem whatsoever.
18	Tim?
19	MR. SEWELL: One follow-up question
20	and request. The last time I was out there, that
21	area was pretty well secured in terms of fencing and
22	gates and the like for entrance and exit.
23	Has that has that been altered in
24	any way?
25	MR. PRINGLE: Not really. The first

1	person you have to go through is the rancher out
2	there, which is Rudy Lambert. And what we do is we
3	call him to make sure that before anybody goes out
4	there because you have to the property, open
5	the first fence. Then you get into the second fence
6	which is where the igloos is, and there is actually
7	another fence around that whole total area.
8	So yeah, there is still security out
9	there. We make sure nobody goes out there. And if
10	somebody's out there we don't know about, then I get
11	a call from Rudy right away, saying, "What's going
12	on?" But most cases, I tell him ahead of time.
13	Yeah, we are keeping it as secure as
14	possible to make sure no one's going out there. And,
15	also, Mr. Dodyk is kind of my outreach at the time.
16	The Field Engineer. Whenever we have to go out there
17	and do things and all that, he works with Rudy and we
18	go accordingly with whatever security is necessary.
19	MR. SEWELL: And I would like to
20	also I'd also like to request that the information
21	briefing handouts and so forth be sent to my manager,
22	Mark Reeder in Austin.
23	MR. PRINGLE: Yeah. We did that.
24	MR. SEWELL: It's been done already?
25	MR. PRINGLE: Before the survey

1	occurred
2	MR. SEWELL: Okay.
3	MR. PRINGLE: my job was to to
4	get with the regulatory folks. So I sent Noel some
5	information; basically a fact sheet out there. I did
6	the same thing with Mark. I told them what we were
7	going to do.
8	And then after the survey was done, I
9	told him what the results were and all of that. And
10	the handouts out there tell you one more time, the
11	fact sheet, exactly what Jody has pretty much said.
12	And there is some more information on
13	his organization and, also, the briefing is out
14	there, too, if you want to see that. And there is
15	some other information out there about radium, radon,
16	uranium and that type of stuff.
17	So, yeah, we are trying to do that as
18	quickly as possible.
19	And if I may follow up on what Jody is
20	saying, we are in the throes of developing a work
21	plan: What we're going to do and how we are going to
22	do it type thing. So as soon as we get that in a
23	position where we can send it out, we will send it
24	out to the regulatory folks and whoever else. We are

not going to wait until November to kind of get the

T	thing going.
2	The idea is by the time we get to
3	November, we will have a work plan everybody has had
4	input on. We will brief it one more time. And if
5	anybody has got any other inputs on, we will make
6	that part of it, then we will make it a final and
7	then we will start the actual to actually go ahead
8	and do the work.
9	After the work is done, again we will
10	bring it back to the BCT as well as the RAB and
11	explain what we've done and where we're going and all
12	of that type of stuff. So as things occur, if I
13	think that they are necessary, then I will call, you
14	know, the folks accordingly and let you know what's
15	going on.
16	Right now, as far as him doing his
17	survey or I won't say you Steve. We are
18	probably talking somewhere around October, November
19	time frame or something like that before they
20	actually get out there.
21	So by the time we do the work plan, we
22	are talking August, September. Let it go through a
23	few throes and all of that, and then by that time the
24	schedule will kind of kick in accordingly.
25	One other thing, if I may. Steve from

1	Cabrera has been doing this type of work for some
2	time, so if you would, would you kind of get up and
3	say what your experiences are
4	MR. McSHULLEY: Sure.
5	MR. PRINGLE: your company
6	MR. McSHULLEY: Well, Cabrera Services
7	is a radiological remediation specialty company.
8	Myself, I am a health physicist and have been working
9	in this area for about 25, 30 years.
LO	For the last four years, we have been
L1	working very heavily with the Air Force on Weapons
L2	Storage Areas disposal sites and quite a bit of
L3	weapons work.
L4	I have also, as a company and myself
L5	personally, done a lot of work with the Department of
L6 <sub>.</sub>	Energy; examining their weapons, their processes, how
L7	they make things, weapons designs.
18	So we have got a pretty good handle on
L9	what was done back then. It's very narrow window in
20	the '50s, the '60s when this particular weapon was
21	used where it's a two-part system.
22	They later went to closed closed
23	physics system where, you know, the nuclear
24	high-enriched nuclear material and the depleted
25	uranium were all in there together.

1	The depleted uranium surrounds the
2	high-enriched portion of it. The depleted uranium i
3	there because it actually gave a little bit of
4	buoyance.
5	It's not very radioactive, but you
6	always get some type of buoyancy on these earlier
7	devices because that made it safe, that way. It was
8	only when they were loading the weapons into the
9	planes ready to go that they would take the
10	high-enricked component and slide that in.
11	And it was a very tight covering
12	because it's very critical that you have the
13	enclosure and be very spherical. So they had to jus
14	keep wiping down the inside because the depleted
15	uranium problems like that, tends to oxidize
16	pretty quickly. So that's pretty much the gist of
17	what we are looking at there.
18	Later on, they developed much more
19	impressive safety systems and they were able to keep
20	it as a single package and sealed and the maintenanc
21	was no longer performed at the Air Force bases.
22	It was - you know, you got it from
2	10 was 7 you know, you got to IIIom
23	the Lepartment of Energy as a sealed unit, and when
24	it was due for maintenance, send it back to them.
25	So we are looking from mid-50s, about

1	162,	63, where the	se particula	open syst	ems were	
2	utiliz	ed.				
3		And a	again, the de	pleted ura	nium was	
4	the pa	rt that people	e accessed.	The high e	enriched,	
5	that p	art was stored	d separately	and you	ı know, ki	no
6	of dif	ferent mainte	nance.			
7		And e	even then, it	's not as	big an	
8	extern	al health haza	ard, if you h	nandle thes	se	
9	proper	ly with you	ur bare hands	, radiatio	on, that	
10	uraniu	m sphere, peor	ole will eith	ner reach i	nside the	;
11	round	to wipe it do	wn the ext	ernal radi	ation, it	,
12	is so	small that it	didn't even	pose any p	oroblem fo	r
13	them a	ctually as the	e wipes are a	accumulated	i and thro	w
14	away.	Similar.				
15		Uran:	ium represent	s much mor	ce of a	
16	proble	m if you happe	en to ingest	it or swal	llow it or	
17	inhale	it. It's no	t much of a h	nazard in t	he outsid	e
18	form.	<b>19</b>				
1,9		Any	questions tha	at I might	be able t	.0
20	answer	on that?			og North Colored (1999) Tight State (1999)	
2.1		MR.	PRINGLE: Wel	ll, thanks.	There i	s
22	more t	c come. And	again, our in	ndications	are that	
23	what w	e are talking	about is rag	gs and clot	hing and	
24	possib	ly respirator	s, which was	which v	vas buried	l.
25		All	of the other	stuff that	nad to d	lo

1	with weapon system and all of that as far as I know
2	was taken off of the base and that was cleaned up
3	accordingly.
4	Like I say, we went through the
5	igloos. With our environmental assessment, the only
6	one igloo that would be found that had some high
7	readings on it, which was back in '94, we went back
8	again and and also AFIOH went back again and
9	looked at it, and those levels actually came down,
10	too. They weren't very high.
11	And we thought that possibly the open
12	systems were worked on on the benches in this one
13	igloo out there, which is 85831.
14	So we will keep things up to date as
15	things go along, and like I say, as soon as I find
16	out something that I think is significant or
17	something, then I will pass that on to the BCT
18	members and RAB accordingly. And if necessary, to
19	have an emergency RAB if that's necessary, but I
20	don't perceive that, them we will also do that, too.
21	And again, Doug Harris is our Public
22	Affairs person, so if anything goes to the newspapers
23	and all that, we will give it to him and he will deal
24	with them accordingly in the same way. If they do
25	something, they'll talk to him accordingly on it too.

1	And Doug works down at Kelly Air Force
2	Base, and he is responsible for four and five bases.
3	So he and I were both went to the same briefings
4	and we were introduced to Jody and A AFIOH and all
5	those folks and learning, I guess, our physics all
6	over again as well as the operations in the Weapons
7	Storage Area.
8	Did you change it?
9	So I am going on to the second part of
10	the Carswell off-base program update, pretty much.
11	This will go a lot faster than Jody's. Probably
12	because I talk faster.
13	Fiscal year '93, which is the 2003.
14	Sorry was one of those years we did a lot of
15	maneuvering, so to speak. Unfortunately, there
16	wasn't a whole lot of money out there for
17	environmental as far as projects goes.
18	And then some of the other projects
19	that were done with the Real Property Agency, they
20	sent their money there because, from as far as I can
21	tell, I am doing too good of a job and we are not
22	having enough problems.
23	So I figured this year I need to
24	create a few problems. And I didn't make this
25	briefing up to do this, although it might have been a

1	good idea so we can get some money.
2	Example is, this survey was done, but
3	on the Sanitary Sewer System, again, there is 12
4	sites across the base that are on the main type of
5	the base, and we've already identified need to be dug
6	up soil and gotten rid of because there's metals out
7	there that are above the clean-up level.
8	So we are going to do that as soon as
9	we get the money. It's number one on the priority
10	list, I'm told, so I am hoping about somewhere in
11	October I will get the money, have it obligated.
12	Again, November, December, go out
13	there, and probably by May or June have the thing
14	done and closed out, clean, the letter and everything
15	will be taken care of on that one.
16	On the Permeable Reactive Barrier near
17	the golf course and a lot of this is repeat, but
18	just in case we put a barrier right here. And
19	basically if you see, there's there's kind of a
20	plume that's sticking out right along there. And
21	this area in here is the golf course.
22	The Real Property Agency wants to
23	eventually transfer all of this, which is now under
24	lease to the Weapon to the Westworth Redevelopment
25	Authority

1	So this is down in the groundwater
2	only. It's not in the soils. We have actually got a
3	close-out on the soils here but not the groundwater,
4	because this all emanates from another source. But
5	we wanted to make sure that we could get rid of this
6	as much as possible so that in the near future, we
7	could transfer this land.
8	So the reactive barrier is basically
9	putting iron in there. And when the TCE comes
10	through it, it actually takes it down to less than
11	the MCL, which is the maximum contamination level.
12	Example was that this plume at one
13	time was all the way out here, which was about 1,200
14	feet back from where it is right now.
15	So we have actually, through the
16	Permeable Reactive Barrier and I think some other
17	things that we are looking at, have actually moved
18	this thing back 1,200 feet.
19	So it's starting to move back that
20	way, and as George will tell you later on, he has
21	done some things over in the Plant 4 area, especially
22	their resistant heating over there which we think
23	also has impacted some of the TCE and is starting to
24	pull some of that back.
25	So the wall was here mainly to clean

1	this down. It's doing a fantastic job.
2	HydroGeoLogic is working with that. We are amazed at
3	some of the results we are getting. We have a few
4	more things we need to look in, but the answer is,
5	coming down here in the area around here, that it's
6	cleaning up better than we have ever seen.
7	And so we are just tickled pink about
8	that. At least I am and all of that.
9	So we are hoping that over the next
LO	year or so, as things progress, we will be able to
L1	come up with some kind of a risk-based number to show
L2	that that's not a problem and will eventually, you
L3	know, actually attenuate, so to speak, and go away.
L4	We could still transfer this land
L5	because nobody's going to be allowed to go down there
L6	and get into that groundwater. There is already
L7	restriction all the way across the base for nobody to
L8	use the shallow groundwater.
L9	Now, the deep groundwater is
20	different, but the shallow is where all this is. And
21	so we're noping that we can, with the help of the
22	PRB, the Permeable Reactive Barrier, get to that
23	point and clean it up.
24	As a part of the transfer of this golf
25	course area sometime in the future, once the PRB does

1	its job and we get the groundwater down, I have to
2	work with George on the Air Force Material Command,
3	because they have a record of decision. And that
4	record of decision basically says that you must keep
5	the TCE within the parameters of the federal boundary
6	line, which is Carswell Air Force Base.
7	The Navy Air Station is a little bit
8	different because they don't have the total land, but
9	the actual federal property is what used to be part
L 0	of Carswell Air Force Base.
11	So in order to transfer the golf
1.2	course to the WRA would move the boundary line, the
13	federal boundary line from here back to this point.
L4	In order to do that, I have got to prove to the
1.5	regulatory folks and to you folks that this
16	groundwater is no longer a problem.
L7	So hopefully working with the PRB
L8	along with a few other things, we will be able to do
L9	that.
20	And the way that we are going to do
21	that is OPS, which is I have got to prove that the
22	operations of the systems over here that are cleaning
23	this up and OPS stands for Operating Properly and
24	Successful I have got to show that those systems
2.5	are actually affecting the TCE plume and they are

1	cleaning it up and will continue on in that
2	direction.
3	As a part of that for this year, I
4	have got two other projects to actually support my
5	OPS. And what they will be doing is, we have
6	monitoring wells already existing over here. I am
7	going to pick up some of those monitoring wells
8	because some of them belong to George, and I think a
9	few of them belong to Mike.
10	I am going to pick them up with the
11	idea that I will be monitoring all of this area
12	around here to show that this plume is actually
13	continuing to degradate and go backward.
14	So I have to do this in order to get a
15	ROD amendment in order to transfer that land so that
16	we can give the golf course an actual transfer to the
17	Westworth Redevelopment Authority.
18	The golf course right now is already
19	under lease to the Westworth Redevelopment Authority,
20	and folks can do whatever they need out there,
21	because we are talking 15 feet down groundwater as an
22	average.
23	MS. ROCKFORD: Yeah.
24	MR. PRINGLE: Fifteen to 20 feet,
25	depending on that. So nobody on the golf course is

1 affected by that.

But the thing is, we eventually want

to give this land to -- to the WRA. And some of you

are probably familiar with the WRA. There's

thinking about some possible commercial entities

along here. We have already got the Lowe store we've

already seen, which is down here, which it's already

been transferred to them.

There is another area right up in here that there is 12 acres that we are working to clean up right now to see if we can't transfer that because there is no TCE plume and all of that. And hopefully, that will happen here in the near future.

And eventually, this other, along 183, will probably be cut out of the golf course. It won't affect the golf course, but nevertheless, that will be something -- more revenue, if you would, to the Westworth Redevelopment Authority.

So my hope is to get all of these projects done, put up the monitoring system, connect that in there. And we will also be doing a five-year review next year which is required by the CERCLA, which is the superfund thing where we will actually stop, looking at everything we have done over the last five years and share with the regulatory folks

1	what we have done, what we haven't done, where we
2	need to go, that type of thing, and ask for their
3	input at that time to see, you know, "Are we doing
4	what we think we are doing? Are we heading the right
5	direction?"
6	So it's kind of like a sanity check,
7	if you will. And that will all be done hopefully
8	this year, if I get the money.
9	As far as projected land transfers,
10	again, the Weapons Storage Area, after we get done
11	doing our investigation, if everything goes well
12	seems like it is and we don't find anything
13	exciting and all that and if we do, we'll be out
14	there immediately hopefully sometime next calendar
15	year we may be able to transfer the Weapons Storage
16	Area out there, once we get that done.
17	The only thing that's holding it up
18	right now is the EOD area, which is the Explosive
19	Ordinance Disposal Area, which is on the far west
20	side of the Weapons Storage Area. It's outside the
21	igloo area.
22	And we've already done a survey on
23	that with the Air Force back that in 1985. And at
24	that time, we had to go get a certificate from the
25	Department of Defense Environmental or the

Explosive Safety Board.

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At that time, the thought was we were 2 going to leave it agricultural. But since then, the Real Property Agency has decided they want to make it 5 residential. And that's a smart thing to do, because all of the other Weapons Storage Area at this point 7 can be released for residential, and especially after we do this 91(b) and all of that, with the exception of the EOD.

> So we have to go back and do another survey on the EOD, which will probably be the same survey we did before, because we went down to ten feet. We cleaned anything we came across. Any anomalies was immediately dug up. We went into the pits and all of that.

The problem was is that when you go to the -- the Explosive Safety Board, you have to tell them what the future use was. We told them it was agricultural. So now we are saying we want to do it residential, and they're saying, "Well, you need to on come back through the channel and one more time show us, you know, that you were able to do that." So we are going to have go back and do another survey.

The good thing is, though, we will be

1	using equipment that's much more sophisticated than
2	it was back in '95. So once we do this again, the
3	EOD will probably be cleaned up, because I don't see
4	any problems because, like I said, if anything was
5	found as an anomaly was dug up. And we are talking
6	big stuff.
7	Most of your shells are within your
8	first two feet. If you have got anything big, it's
9	down five feet, whatever, and they cleaned down to
10	ten feet.
11	So I am suspecting they got everything
12	out there. If we didn't, we will find out anyway
13	with the new equipment.
14	So once we get that done, the EOD's
L5	cleaned up, then the Weamons Storage Area will
16	actually the whole area will be declared
17	residential.
18	Once we get this done, DOD, put it
L9	together, a certificate and the AFRPA probably go
20	through the General Services Administration,
21	advartise the thing and take bids and transfer land
22	accordingly.
23	For the golf course parcels, we
24	already talked about that. Again, that's many
25	things along the 183, with the Westworth

1	Redevelopment Authority wants to turn the
2	commercial; have companies come in there, offices,
3	whatever, and produce more money from them as well as $x \in \mathcal{X}$
4	continuing on with the golf course and doing their
5	thing.
6	So we are hoping to have that whole
7	thing transferred to them over the next couple of
8	years. Not as fast as I thought.
9	Any questions? Yes, sir.
10	MR. SEWELL: Did you say probably next
11	spring before you do any removal field work on the
12	sanitary sewer?
13	MR. PRINGLE: I am hoping to get the
14	money in October.
15	MR. SEWELL: Right.
16	MR. PRINGLE: If I do, it will
17	probably be January, February time frame when we
18	actually get into the field.
19	MR. SEWELL: Okay.
20	MR. PRINGLE: If everything works
21	right, we will be able to get you a work plan in
22	December. If we work real fast, maybe by 13 November
23	when we have the next PCT.
24	Because we know what the work is. I
25	know what it is. It's already been identified. We

	50
1	investigated it. I just need to get the money and
2	start off and get the thing done.
3	Any other questions? None? Okay.
4	Then we will move on, and the next
5	part comes up where George is on tap. Thanks.
6	MS. ROCKFORD: Thanks.
7	MR. WALTERS: I guess we should have
8	had the mic so you could do the Carswell, but we'll
9	switch over to the Air Force Plant 4.
10	So, knowing we were going to talk
11	about the Weapons Storage Area today and knowing we
12	had a nuclear research facility at Plant 4, I figured
13	I would give y'all an update on the decommissioning
14	of it many, many years ago just to bring you up to
15	speed. Many of you here may know more about it than
16	I do.
17	We have a conceptual model work
18	ongoing, and then we are also doing landfill survey.
19	But people who are new here I see a few new
20	faces we have Plant 4 is outlined in yellow.
21	It says "Carswell" over here. Plant 4 is the one
22	building is one mile long.
23	So the nuclear research facility is
24	what's located at the northern end. I've gct some
2.5	facts on it on the next sheet but you can see where

1		it's located and relative to Carswell Air Force
2		Base, and again the Weapons Storage Area is about
3		five miles to the top of the page.
4		This is what it looked like back in
5		the probably '60s and '70s; a lot of equipment. They
6		had three reactors. And they did a lot of research
7		on at one time, they tried to build a nuclear
8		powered airplane, but of course that wasn't light
9	٠.	enough and that little project failed.
10		But they did a lot of work by, you
11		know, the electronics on airplanes and stuff. They
12		would radiate it and see if that would damage the
13		equipment. So if they were flying an airplane, and
14		all the sudden one of these bombs would go off. They
15		wanted to see how that would react with the
16		electronics, so they did a lot of that work.
17		And once you irradiate something, of
18		course, it's radioactive and you have to dispose of
19		it. So as part of the disposal, when the site was
20		decommissioned back in 1974, over 17 million pounds
21		of all of that was hauled away. And you can see here
22		that it was given unrestricted use.
23		And back in the early '80s when we did
24		our original TRP sites this was one of the 20. And

when they did the ranking system and a scoring

1	system, the top 19 scored between 88 and 51. The
2	NARF area was so low, it only scored a 6. It was
3	decommissioned.
4	And Jody, you can probably tell me if
5	they have all of the equipment back in they
6	still today to see if anything was hot and remove
7	it? Would that be a correct statement? Looking at
8	Jody here.
9	MALE SPEAKER: He is the surveyor.
10	MR. WALTERS: Okay.
11	DR. WIREMAN: Repeat the question
12	again.
13	MR. WALTERS: Well, it's just that
14	some of the some of the same equipment they use
15	now as what they used back then when they
16	decommissioned I am sure it's gotten better now,
17	with all the
18	DR. WIREMAN: It's yeah, it's
19	changed quite a bit since the '70s, what's utilized
20	nowadays. Sc it's it's hard to say certainly, but
21	if you remove that much of it sounds like you
22	know, typically reactor, mostly it's done as removal.
23	There's very little residual left in the soil so
24	MR. WALTERS: And I will make a guess
25	that the work that was done there was probably a

1	lot classified, and they probably didn't want to
2	leave anything that was classified behind and they
3	sure as heck made sure they got all of it out of
4	there.
5	But as I always tell you, all of my
6	reports for Plant 4 are on CD ROM. So if anybody
7	would like my copy I have here, I can give it to you.
8	Otherwise, it's at the library.
9	All of the previous work that was
10	obviously the IRP investigations and some of the work
11	here. Again, this is what it looked like from the
12	lake view.
13	They did have a barrier to keep people
14	out. You had to have a distance around it that you
15	would maintain, keep everybody out obviously.
16	Well, I can the radioactive guys
17	can explain this. I mean, here you have got people
18	standing there. So how exactly was the radioactive
19	stuff kept so that you could walk around it?
20	MALE SPEAKER: Yeah, I'm not sure
21	often in simple reactor sites, that use water, and
22	that what you are looking down into is a pit
23	filled with water. And the water is a very effective
24	shielding for both the neutron and the gamma
25	radiation but yet again allows you to work freely

1	from the surface, and it's called a swim pool reactor
2 ,	design.
3	I can't really tell if that's what it
4	is, but obviously actually back in the those days,
5	they were very careful with the work that had been
6	limits to stand a little higher back then but not
7	much.
8	MR. WALTERS: I'm going to talk to you
9	just to show you all the work that was done there and
10	just that I guess I was trying to say that, you
11	talk about radioactivity I get nervous when I hear
12	about it and mostly we're talking about the
13	Weapons Storage Area. And hopefully they have
14	explained it to you that you had shouldn't be
15	nervous. But the fact people are walking around and,
16	again, it being decommissioned properly.
17	I do have some information on some
18	radioactive uranium, radon and americium. Everybody
19	here hopefully has a radioactive device in their
20	home, a smoke detector that has a a little bit of
21	americium 241 in it that ionizes the smoke. So if it
22	ever falls off of the ceiling, you know, make sure
23	your dog doesn't eat it, because it's when you ingest
24	it that you get the harmful effect.
25	Americium is it alpha? Alpha. Alpha

1	won't go through your skin. You can blot it with a
2	piece of paper. But if you were to eat it, that's
3	when it can do its damage. I think of a smoke
4	detector, so hopefully that wouldn't hurt the dog
5	either.
6	And we have a black and white photo of
7	it. And I am coming up on what it looks like today.
8	Again, that's a trailer. Kind of a far end of the
9	building, so they haven't put anything buildings
10	there to do anything. Most of the manufacturing and
11	also, everything, it's so far away from the main part
12	of the building they have a building there to do
13	future work. It's kind of out of the way, but
14	obviously right now, they use it for storage.
15	And that's all I had on the nuclear
16	aerospace research facility. Again, the Air Force
17	does have a no-further-action document on it, and
18	that's in the admin record for you to read if anybody
19	has any questions on this.
20	I'll let one of these experts answer
21	it, but I didn't know if any of the public had heard
22	stories about the site. And we did sample. It was
23	closed in '74.
24	Sediment and soil borings and

groundwater were sampled in the '80s, and then we

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1	hired a contractor that did our remedial
2	investigation in the '90s called (inaudible). They
<b>3</b>	worked for the Department of Energy out of Grand
4	Junction, Colorado, and since they are good with
5	nuclear stuff, they actually did the Lake Worth
6	sediment sampling. And it all came back to
7	background.
8	So I am going to switch gears, just
9	talk about some future innovative work that the Air
10	Force is trying to do to make sure we understand our
11	plume.
12	This is the groundwater plume
13	originating over here at Plant 4 at some possible
14	source areas. The geological surveyed,
15	groundwater modeling experts, and they can particle
16	track. Water doesn't jump over. When you have two
17	sources of water that meet, the part coming in from
18	the right can't jump to the left.
19	It's just the way groundwater flows.
20	Especially at low speed and down in the ground. So
21	when they do some particle tracking, they can come
22	back and say, "Well this part" you know, TCE is
23	what we are dealing with here.
24	They can come back and say, "Well, it
25	came from here, and it didn't come from up here

1	because, you know, groundwater flows one way, and the
2	particles travel with the plume."
3	So this was kind of an older model.

And every year, if you are going out to the computer

store, you know how computers are getting fancier and

faster and the software is getting better. You can

do better modeling.

groundwater treatment facility. I am pumping, oh, approximately 100,000 gallons a day. I think it is -- it's 85 to 100 gallons a minute from roughly 50 extraction wells. And I want to see how I am pulling my contamination in. And again, I don't want to just pump so fast that -- you know, I don't want to pull clean water in. I want to pull in the contaminated water.

So to make sure I am doing it properly and most efficiently, we can do some modeling and find out maybe I need to turn one well off and turn another one on faster. And hopefully by using this technology, we can speed up the depletion of the plume.

So again this is the hot spot around the Plant 4 area. So going from 2001, you go to a couple of years, again, it's really pretty if you can

1	see the stuff we did back in the early '90s, what
2	this stuff looked like.
3	They can map the plume, and this is
4	probably bedrock. This is the surface. See Lake
5	Worth up here. Plant 4 sits right here. Obviously
6	the runway. And the golf course area over here, and
7	then the river over on this side.
8	So we have a gazillion borings in the
9	ground and monitoring wells. So when we go 20 feet
LO	deep and we change from one layer to another, we
.1	obviously have a core. We know exactly where 20
12	feet below the ground when the limestone shows up or
L3	when sandstone shows up. We've got probably
L <b>4</b>	between Carswell and Plant 4, we have probably 1,000
15	monitoring wells and probably a few thousand soil
L6	borings.
L7	So you get all of that information.
L8	And how do you manage it and obviously try to make
19	sense of it all? Well, by using this type of a GIS
20	geographical information system.
21	So this is looking down below the top
22	of the the top surface doesn't really interest u
23	too much because groundwater is roughly 20 feet
24	helow And just because you have a surface

something you can look up here, doesn't mean it's

1	down in the ground. You could have a bedrock high,
2	and groundwater is not going to go this way. It's
3	going to, you know, obviously go off in a different
4	direction.
5	So by looking below the surface, with
6	our binoculars, we can see where there is an old
7	Paleo channel. That was a stream bed. That's got
8	gravel. Gravel. Water's going to flow through this
9	gravel a lot harder than it is in this bedrock area.
10	So by knowing where the Paleo channels
11	are, we can pinpoint wells and know that the wells
12	we want to monitor and the wells we want to extract
13	from.
14	You can see these two bridges here.
15	That's our bedrock high that Plant 4 sits on. That's
16	always interesting because, on this side groundwater
17	flows this way, and on the other side of the
18	building, water flows to the west.
19	Plant 4 being as large as it is and
20	built in 1941, '42, '43 time frame, during the war,
21	very quickly, it has lots of pipes; miles and miles
22	and miles of pipes, and unfortunately a lot of them
23	leak. And that's where we get a lot of our
24	groundwater flow. The pressure to push the
25	groundwater off is from the leaky pipes and obvious!

	. The second of the second of $oldsymbol{\cdot}$
1	the little bit of rainfall you get here.
2	So again, that's these are where
3	our geologists that are very important to know
4	where all of this is.
5	Again, looking down even further, what
6	we want to protect is the Paluxy. Although it's not
7	used for drinking water under the plant, it is used
8	further off.
9	Right now, we have localized areas
10	where it's interesting to show you here is the
11	bedrock, which in a lot of places is 30 to 40 feet
12	deep thick. And it protects shallow groundwater
13	from going deeper.
14	In some areas it's missing or thin or
15	fractured, meaning groundwater from the top can get
16	lower. And so that's in the east parking lot,
17	where we have a lot of extraction wells to obviously
18	keep that from spreading and contain it
19	And again, just different views that
20	we can lock at to you have to have a conceptual
21	model of what you are doing so you know how to attack
22	it.
23	And again, this helps the EFA and the
24	regulators and all of the contractors hopefully kind
25	of agree on what the big picture looks like. And for

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1	Carswell and Plant 4, we need a big picture because
2	of the commingled plume we have with those Plant 4
3	and Carswell and all of the activities they are
4	doing.
5	Terrace means the the upper, right
6	below the surface. The Walnut, again, is the
7	bedrock, and the Paluxy is a drinking water aquifer.
8	And I believe this will be out in a
9	report in a couple of months and probably placed in
10	the admin record and obviously, you are all welcome
11	to review it and look at it.
12	And just again, that's our bedrock.
13	That's the groundwater divide. These are some of the
14	monitoring wells we have and extraction wells. These
15	happen to be Paluxy wells, which are the deeper ones
16	This is probably a two-mile by
17	two-mile grid. And while it looks real pretty here,
18	when you are walking between these two wells, it's -
19	it's a long walk.
20	So while this makes it look like we
21	have a lot of wells, when you are out there that's
22 <sup>.</sup>	what contractors tell me: "I need more wells."
23	So I have got to decide, with the EPA
24	and Texas, the regulators, "Do I really need more
25	wells, or can I. you know, sample a different well

- 1 close by and say, 'Hey, I think I got it covered.
- 2 Let's not spend \$10,000 for one more monitoring well
- 3 in the ground.'".
- 4 So hopefully using this system and
- 5 making sure we look at this first before we go put an
- 6 extraction well or monitoring well in will save some
- 7 money.
- 8 Okay. So that was it for the
- 9 conceptual modeling.
- Two more charts left, is just that
- 11 whenever a new technology comes out, I know that the
- USGS is up on top of it, and we like to use it, too.
- So my boss was at a briefing a couple
- of years ago by the USGS, and they have a different
- type of a radar that looks into the ground: Early
- time electromagnetic visam [phonics].
- I am not sure if you guys have used
- 18 it. Maybe it's just a USGS type of technology. But
- 19 my boss saw some really clear pictures of the
- 20 subsurface, and he wanted us to use it at Plant 4,
- 21 like a lot of things that look into the ground. This
- is probably an old way to look at it. But this is
- the new way.
- 24 By pulling it on a tractor in a wider
- area. So we didn't want a whole lot of utilities in

1	the way because a lot of Plant 4's plant fills have a
2	lot of rebar and metal stuff and fences. And any
3	time you have fences around this equipment, you get
4	some interferences.
5	So Carswell had a nice landfill that
6	we could test out the technology, and it turned out
7	it came in handy to check out by the Permeable
8	Reactive Barrier to see if one of the wells which was
9	reacting kind of funny, if anything was around it.
10	And we were able to use this technology over it, too
11	And hopefully in the next couple of
12	months, we will see exactly how well that looked
13	under the ground. The site's already been closed.
14	It's had surveys done over before. It's got a cap or
15	it, so there is no obviously risk to anybody.
16	It presented a nice area that didn't
17	interfere with anybody to look at, so that was the
18	site that was chosen. And that's my update for Plant
19	4.
20	Unless there is any questions, I had
21	some back-up charts if anybody wanted to ask me about
22	our heating system or anything else we have done in
23	the past that you have done some briefings before.
24	So any questions from anybody? Otherwise, we'll turn
2 5	it over to Mike Dodyk

1	MR. DODYK: Okay. I am Mike Dodyk. I
2	work for AFCE, but I am the resident engineer here at
3	Carswell. I am the guy that makes things happen on
4	site. Day-to-day work with the contractors is what I
5	am involved with.
6	Give you a little history again: The
7	Environmental Restoration Program, Carswell was
8	closed in September 30th, 1993, and the majority of
9	the base was realigned as the Naval Air Station. And
10	again, a portion of it went to the Westworth
11	Redevelopment Authority.
12	Now, because we owned it way back
13	when, we are still responsible, the clean-up of that
14	contamination that that occurred before October
15	1st.
16	In compliance with the Resource
17	Conservation Recovery Act, we do a RCRA facility
18	assessment that was done in 1989. That's where they
19	went out and looked at and said, "Are there any
20	potential releases of contaminants?"
21	And this the RFA identified 87
22	sites on the base, on the Carswell property that
23	required investigation closer. These were
24	potentials. Things like landfills, fire training
25	areas, underground tanks that could possibly there

1 could have been releases.

25

2 We identified 68, what we call Solid 3 Waste Management Units and another 19 areas of 4 concern. And it doesn't show up very well on this 5 map. The sites are either in green, which indicate 6 the Solid Waste Management Units, and the red sites 7 are areas of concern. 8 So far, we have received closure; that 9 is, we have proven to the regulators that there have been no releases from 78 of the 87 sites. 10 11 Consequently, we still have nine remaining. That's 12 my job at AFCE; is to identify these sites, prove 13 there was no contamination or if there was a 14 contamination released, a danger to human health or that will be able to the environment, that we remediate it. 15 Control of the state of 1.6 Of these nine remaining sites, three we plan on closing by the end of this year. That 17 shows 19, 20 and 21. And we had planned on closing 18 19 another five by next summer. And then AFC 1, which 20. will be closed later on that -- an operating system to Clean up. 21 2.2 To ensure the complete investigation ក្រុម ទោក ១៩គេ បង្ហាស់ប្រជាពលរបស់ ១៩៩៩ 23 of source of contamination, again we have already and the second of the second 24 identified 89 sites. And we are getting another Mark the state of the contract of

look. Just like we said on the red site at the

the first of the terms of the second

1	offsite weapons storage area: They had investigated
2	before. We are taking a new look at it.
3	We are taking a new look, doing a
4	historical research again for any releases. We're
5	looking at records searches of archival documents.
6	We're going anyplace where we find a history of this
7	base.
8	We are interviewing with Air Force
9	personnel who were stationed at Carswell. We are
10	going look at all of the old aerial photographs and
11	find historical data.
12	Now, one of the ways we're as far
13	as finding people who worked here, we are going to
14	publish ar ad in the paper, and we're going to have a
15	1-800 number.
16	Now, I would like all of you people
17	who worked around here, we have copies of this. You
18	can take it home, put it up at the VFW hall. If you
19	know anybody else that had worked here and knows of
20	any potential releases, call this number, and then
21	we'll investigate it further.
22	Now, the field activities, present
23	operations, we constructed this groundwater
24	remediation system at the former base gas station.
25	There is a new one on site right now. We completed

1	the system in June, and we started operation on the
2	10th of June.
3	We are also doing performance
4	monitoring of that permeable reactive wall; see how
5	well it's been operating. Results so far have been
6	very good.
7	We also something new as a
8	demonstration project: On the northern lobe you
9	remember there's three three lobes of plumes
10	migrating across the base. Reactive wall is taking
11	care of the southern plume. The middle plume staying
12	on base. There is a demonstration because there is a
13	narrow space where the plume as it migrates,
14	it's one is a very narrow spot up there.
15	We injected vegetable oil. Vegetable
16	oil contains carbon. We're using it as a carbon
17	source, and carbon reacts with the TCE and causes it
18	to break down and then because the carbon atoms
19	replace the chloride atoms, therefore, it becomes
20	CO2.
21	This is the treatment AOC 1
22	Treatment System. This system here is extracting
23	water. It's pumping out of the ground. It's pumped
24	out of the ground. We have a pneumatic system by
25	area. We have bladder pumps that literally pump the

water out of their six extraction wells.

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Pumped in here, and this an area we
literally blow pump water down this chamber and we
blow air up and literally strip off the gasoline off
of the water, and the water is discharged to the City
of Fort Worth sewer system, and the concentrations of
gasoline go into the air at a very low rate.

The system has six groundwater recovery wells, each approximately 33 feet deep down into the water. Contaminated water is pumped through the surface and passed through what we call the air strip.

So far, the first 20 days of operation, we have identified and we have treated 183,704 gallons of contaminated water. It's a very low-rate operation where we are pumping six gallons a minute right now. So far, .67 pounds of benzine and 3.3 pounds of total petroleum hydrocarbons, or what we call TPH.

The Permeable Reactive Barrier, we have talked about this before, was installed last year; April, May of 2002, to remediate that plume containing trichloroethylene. Groundwater sampling at this reactive barrier we -- it's conducted every three months.

1	We measure that by taking samples
2	immediately upstream of the barrier, in the middle of
3	the barrier and downstream of the barrier. And we
4	found it successfully remediating the groundwater.
5	Is this where it now goes? Anything else or
6	MS. ROCKFORD: It will go.
7	MR. DODYK: Okay.
8	This is the runway, and we are going
9	to zoom down into the contamination site. This here,
10	this line here is the reactive wall, and this shows
11	the intensity.
12	It shows how the higher
13	concentrations, you can see the concentrations there
14	are decreasing. As contamination goes through the
15	wall, it breaks down, and so the concentrations
16	that's in the groundwater downstream of the water
17	this is the golf course area right here, and you can
18	see it starting to decline in value.
19	And we have the May results are our
20	latest results. This is another view of the system.
21	Again, you can see the concentration. Red, of course
22	is the highest so that the concentrations are
23	decreasing.
24	Okay. Upcoming field work in the
25	fall, we are going to continue the monitoring of that

1	AOC 1 Treatment System. Because again, we just
2	started. We want to see how well it's working.
3	Hopefully, we will get good results on that.
4	Delineation of various compounds.
5	This is at Landfill 1. We are going to find out how
6	far is the contamination out from where the location
7	is in the landfill.
8	And we do have that some of the
9	cadmium was identified above what we call MCLs, so we
10	are going to have to do an excavation. We are going
11	to remove some of the soil. The cadmium is at a high
12	level.
13	This is at Landfill 1, which is along
14	the river, the Trinity River, downstream of the East
15	Gate.
16	We are also going to delineate or
17	identify the how far out the soil contamination
18	and sediment contamination stands. At SWMU 64, this
19	is the drainage outside by the East Gate.
20	All the storm water is leading to this
21	discharge channel. And so we're going to identify
22	that, and we'll be doing that this fall.
23	Documents under review, remember work
24	is not done until the paperwork is complete. Right
25	now currently we are redoing our RCRA facility

1	investigation report at SWMU 49, which was a former
2	aircraft washing area, where they were washing
3	B-52's. We are reviewing that report that was
4	conducted by our consultants, HydroGeoLogic.
5	Currently, the regulators have two
6	documents: They have the RFI, the SWMUs 19, 20 and
7	21. We all combine them together. They're various
8	components of the former Fire Training Area No. 2.
9	We also have the final site
10	investigation for Building 1010, the former engine -
11	jet engine test stand. We do have these, what do you
12	call them? Executive summaries of those documents,
13	and their locations. If you want to see where they
14	are at and the brief summary of what these reports
15	say, you can pick them up on your way out.
16	Currently now, we are talking about
1.7	discussions we are having discussions with the
18	regulators. Our final report is the focus
19	feasibility study on the southern lobe of the TCE
20	plume.
21	And that's it. Any questions? Mr.
22	Sewell?
23	MR. SEWELL: Mike, could you run by
24	those run those those five Solid Waste
25	Management Units that you are planning on trying to

1	have done by the end of June next year? I want to
2	get those numbers.
3	MR. DODYK: Okay.
4	MR. SEWELL: There we are.
5	MR. DODYK: Okay. Right there. The
6 ,	thing about this entire thing is the summary. You
7	can pick them up, too. Don't have to take notes.
8	You can get this entire briefing.
9	But SMUs 28, which is Landfill 1; 49
10	is the wash rack; 54 and 55 are the East Gate and
11	storm water interceptor and storm drains. 66 is the
12	sanitary sewer, Chuck?
13	MR. PRINGLE: Right.
14	MR. DODYK: Assuming we get the money.
1.5	MALE SPEAKER: I just have a comment.
16	The Permeable Reactive Earrier has proven successful
17	to such an extent that Tinker Air Force Base in
18	Oklahoma City is also installing a Permeable Reactive
1.9	Barrier in the near future to control their TCE
20	plume.
21	So the Air Force, seeing the success
22	here at Carswell, is using the same remediation
23	technology at Tinker.
24	MR. DODYK: Is that under the main
2.5	assembly building or is that whereabouts?

1	MALE SPEAKER: Yeah, on the western
.2	plume, RCRA plume come out of the west. They have
,3	been monitoring it for the last three or four years
4	and it just in the last three or four months, the
5	plume has gone offsite. So they are now having to
6	install the wall.
7	MR. DODYK: Okay. Are there any other
8	questions?
9	Okay. Maybe you couldn't see it in
10	the dark. This is that fact sheet, that 1-800
11	number. If you know of anybody, you might want to
12	take a couple of copies of these, like I said, to
13	post at the VFW halls, hand to some of your friends.
14	This ad will be run in the newspaper, also.
15	MR. WALTERS: Well, at this time, we
16	set up the next meeting. And based on my
17	contractors, we believe November 13th, which should
18	be the second Thursday of November, is a great time
19	to have another meeting. So I'll move that we have
20	the meeting and the RAB or the technical meetings
21	during the day and RAB at evening.
22	Hopefully, public can get all of their
23	friends to attend. And do you have any ideas for
24	what you would like to see briefings from us on? If
25	you don't know tonight, please let us know in the

1	future, and we will give you an update. Yes, sir?
2	MALE SPEAKER: Is this the appropriate
3	time for questions?
4	MR. WALTERS: Yes. Yes. After we
5	agree with the November 13th meeting, we can start
6	into the open questions session. I see a good thumbs
7	up on the November 13th. Yes, sir.
8	MALE SPEAKER: I heard the term "the
9	project being closed" and with respect to the Mr.
10	Dodyk's presentation and particular sites, and in
11	respect to Mr. Pringle's presentation, I heard that
12	when you reached a certain point, the property would
13	be conveyed to the WRA.
14	There is one and you and I talked
15	about this. There is one small piece of property
16	east of I'm sorry west of 183 at the
17	intersection that's owned by private parties.
18	As this plume has withdrawn and the
19	levels of contamination have gone down, I am led to
20	believe that it is now below the levels that the
21	State requires remediation.
22	My question is and I bumped into
23	every way I have gone, I have bumped into, talked to
24	somebody else. I want to talk to everybody at once.
25	Can somebody tell me who issues a

1	closure letter on behalf of whomever it is that's
2	responsible for this TCE contamination being in the
3	groundwater that I can take to a title company that
4	says, "This property is not contaminated"? Where car
5	I get a closure letter from either the the U.S
6	RPQ?
7	MR. WALTERS: The answer to your
8	question, we get our closures from the EPA and TCQ
9	right? They deem a site has been closed and
LO	available for you know, we tell the EPA that we
11	believe we have done this to the site and have it in
L2	this condition. And then they, you know, kind of
L3	certify that based on the conditions today
L4	MALE SPEAKER: Do you provide do
L5	you provide the information to them
L6	MR. WALTERS: We do that for federal
L7	property.
L8	MALE SPEAKER: Beg pardon?
19	MR. WALTERS: We do it for federal
20	property. So for something that's offsite I won't
21	say we are lucky. We don't have the lawyers here
22	today, but normally we have a whole bunch of our
23	lawyers here who could answer that question.
24	MALE SPEAKER: Well, how does one go
25	about

1	MR. WALTERS: Private property the EPA
2	deals with where there are TCE plumes, and I know you
3	do federal, you know, facilities like ours. But what
4	about public people out there? What goes on with
5	them?
6	MALE SPEAKER: Well, you pose a very
7	difficult question, obviously, as you understand it.
8	But the property currently has no deed restrictions
9	in place to my knowledge.
10	MALE SPEAKER: It has a disclosure
11	requirement.
12	MALE SPEAKER: It has a disclosure
13	requirement. Okay.
14	MALE SPEAKER: State law requires me
15	as a property owner and a real estate person to
16	disclose this information.
17	MALE SPEAKER: Right.
18	MALE SPEAKER: The property across the
19	street had a spill, and got a closure letter on that
20	particular matter.
21	MALE SPEAKER: Right.
22	MALE SPEAKER: It was not this. It
23	was a separate one. And so I need to know who
24	initiates or how do I go to get the information to
25	take it to get this the letter closured?

1	MALE SPEAKER: Being a CERCLA, a
2	plume, a plume that is this the plume that is
3	CERCLA that we are talking about?
4	MALE SPEAKER: Yes, sir.
5	MALE SPEAKER: Being a CERCLA plume,
6	the the CERCLA response or the road map that leads
7	to that closure, of course, is called the P report,
8	the preliminary close out report. That report would
9	be prepared by the Air Force for review by the EPA.
LO	Now, that P report would not be
L1	prepared until not just that single piece of property
L2	is remediated but the whole entire remediation system
L3	is deemed to be operating and performing successfully
L <b>4</b>	and functionally.
L5	That OPS, Operating Performance
L6	Successfully determination is still probably a couple
L <b>7</b>	of years away before the Air Force could prepare the
L8	preliminary close-out report, which they give to the
L9	regulators to give a stamp of approval that would go
20	a long way in allaying the fears in your disclosure.
21	But the the way the CERCLA process
22	is, we don't look at individual tracks of land. We
23	look at the remediation technology and the record of
24	decision as it applies to the entire plume. So
25	that's the difficulty.

1	Because you are not going to get EPA
2	to give you a preliminary close-out report until we
<b>3</b>	have an Operating Performing Successful statement
4	from the Air Force. Their remediation system is in
5	place and performing successfully.
6	DR. WIREMAN: And there would have to
7	be like an interim report like a finding of
8	suitability for transfer that would, you know,
9	address something like that?
10	MALE SPEAKER: (Inaudible.)
11	DR. WIREMAN: Right. I mean, I have
12	never heard of the government doing it for off-base,
13	but they have done it for on-base portions. An EPA
14	regulator community, the way we looked at it is the
15	close-out report would not be prepared until it
16	addresses the entire plume independent of the
17	property. You know, Air Force property versus
18	private property or whatever.
19	Now
20	MR. WALTERS: As a private citizen,
21	though, to show it's below MCLs, even though it's not
22	a drinking water aquifer
23	MALE SPEAKER: Well, the EPA would do
24	is we could provide you with health assessments
25	through ATSCR, but the disclosure that the

1	contamination is what it is: One one PPB of TCE,
2	which is below the MCL 5, and we could have a public
3	health consultation given to an you know, an
4	entity that could use that to allay the fears to the
5	purchaser.
6	But that doesn't give it a stamp of
7	protection of liability.
8	MR. PRINGLE: That is a question going
9	on with what you are saying. I talked with Mark
10	Weaver at TCEQ. He said, you know, that you can
11	actually volunteer for a clean-up program. This is
12	under TCEQ.
13	And based upon that, you can get a
14	Certificate of Innocence. And that shows that, you
15	know, what contamination is on your land is not your
16	responsibility; it's somebody else's responsibility.
17	And based on what I know, which is not
18	a whole lot, I think that might be the best way for
19	you to go. Because going through that, you get your
20	Certificate of Innocence which says, you know, "We,
21	the Air Force, are responsible for that clean-up,"
22	and that would give you if I understand it
23	correctly, your land, that kind of free feeling that
24	it's been excluded, so to speak, from at least this.
25	It still says that, "We, the Air

1	Force, are responsible for clean up the TCE plume,
2	which we're working on and eventually we will get to
3	the OPS and all that." But like Robert said, that's
4	sometime in the future.
5	But I am thinking, again, talking to
6	Mark Weaver and Tim shaking his head a little bit,
7	that's probably the best way for you to go.
8	MALE SPEAKER: So Tim, do you all
9	we can make application to you?
10	MR. SEWELL: There is information for
11	this program that Chuck has mentioned. It's called
12	the Innocent Landowner Program.
13	MALE SPEAKER: Okay.
14	MR. SEWELL: And we have quite a bit
15	of information on our TCEQ website.
16	MALE SPEAKER: I have this card to
17	give you.
18	MR. SEWELL: Let me see if my website
19	is on there. If you will give me a call, I will get
20	you the web address. I don't have anything on it
21	right now. I don't have anything with me right now
22	that's got that.
23	MR. PRINGLE: Again, this, I would
24	feel that you would have to coordinate that with the

EPA folks, too. I think, with TCE taking the lead on

25

1	this, so to speak, to get a Certificate of Innocence,
2	that I don't want to speak for you guys.
3	MR. BENNETT: No, that's correct. We
4	would defer to the State of Texas on a a matter
5	like that. Again, not speaking for an attorney. We
6	would likely acknowledge that. We try always to
7	defer to the State of Texas under their regulatory
8	authorities.
9	MALE SPEAKER: Could I get your card?
10	MALE SPEAKER: Sure.
11	MR. WALTERS: Any other questions?
12	I've got a question for the City. You have like your
13	own sediment sampling program and water quality
14	assessment and even fish tissue analysis. How do we
15	share that with our RAB people because also, they are
16	interested?
17	MALE SPEAKER: Usually the person
18	there to talk to is Clarence Reed. He is over the
19	water quality group for now. I can give you a
20	business card and you can give me a call, and I can
21	get you that.
22	He is over that entire group. He can
23	tell you exactly what's going on and who is doing
24	what and so forth.
25	MR. WALTERS: Am I understanding you

1	are going to do additional fish tissue sample?
2.	MALE SPEAKER: I I have no idea. I
3	am not really involved in that group.
4	MR. WALTERS: Chuck?
5	MR. PRINGLE: Question. Do we still
6	have our website?
7	MS. RGCKFORD: Yes.
8	MR. DODYK: Is that information
9	something we can put on there and anybody could go in
10	and get that information as to who is responsible for
11	what and that type of thing?
12	The other thing I am thinking, too,
13	is and I don't know if everybody is aware of it,
14	but the administrative record we have referred to
15	is you know, reports that we have done that are
16	put over at the library. They are also on a website.
17	If we could put that on the website,
18	and then if you are interested in any site, any
19	report, you can go in there and type "Carswell Air
20	Force Base, " and it will show you a report you can
21	read so you can do it from the safety of your home,
22	so to speak.
23	MALE SPEAKER: What's the address
24	there, that web address?
25	MALE SPEAKER: Go to the AFCE website

1	www.afce.el. And from there, you will go
2	MR. WALTERS: Type in "Carswell."
3	MALE SPEAKER: Type in "Carswell" and
4	find it, yes.
5	MS. ROCKFORD: It's actually it's
6	on the it's on the back of the fact sheet, if you
7	picked up this document. All point of contacts are
8	here. Chuck's phone number, Mike's phone number,
9	George's phone number and the website. So this the
10	fact sheet.
11	MALE SPEAKER: So you can go to the
12	AFCE website, punch in "Carswell," and it will bring
13	up to the website
14	MR. DODYK: The whole address.
15	MR. WALTERS: Areas of separation, you
16	can find it. Well, any other public at this meeting
17	that want to be the RAB co-chair?
18	MR. DODYK: Don't all volunteer all a
19	once.
20	MR. WALTERS: We'll hit you up at the
21	next meeting. Any other questions before we let
22	y'all go, Chuck?
23	MR. PRINGLE: Just as a suggestion,
24	Mike, you might want to try and go through co-chair
25	until we get a more official one.

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1	MR. WALTERS: I am probably going to
2	rotate this to you guys next time.
3	MALE SPEAKER: Nice try, Chuck.
4	MR. PRINGLE: Well, I am thinking, yo
5	know, for tenure purposes.
6	MR. WALTERS: Well, hopefully
7	everybody got some good information tonight, and we
8	are going to stick around.
9	Anybody have any question you don't
LO	want to talk to us about in front of everybody,
l1	please come up and talk to us. Look at our plume
L2	map, ask questions. And our next meeting's we
L3	will see you at the next RAB or talk to you on the
L4	phone.
15	(Meeting adjourned at 7:37 p.m.)
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1	STATE OF TEXAS		
2	COUNTY OF TARRANT		
3			
· <b>4</b>	I, Suzanne S	mall, Certified Shorthand Reporter	
5	in and for the State of Texas hereby certify that the		
6	above and foregoing pages numbered 1 through 84		
7	constitute a full, true and correct transcription of		
8	my stenographic notes from the above-mentioned		
9	Restoration Advisory Board meeting held on August 21,		
10	2003.		
11			
12			
13			
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